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Yields of the Field Experiments 1966

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66/W/WIC/B/9 Intensive Cereals

Rothamsted Research

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66/B/9.3

SUMMARY OF RESULTS

WHEAT GRAIN

N1	N2	N3	N4	Mean
36.2	42.8 (± 0.79)	39.9	38.0	39.2

BARLEY GRAIN

38.1	48.4 (± 0.76)	51.4	49.0	46.7
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POTATOES

	Permanent wheat block	Permanent barley block
Total tubers	7.65	13.45
% ware	89.5	94.6

CLOVER RYEGRASS LEY

	Permanent wheat block		Permanent barley block	
	Mean	Mean D.M. %	Mean	Mean D.M. %
1st cut	16.8	38.5	21.9	32.0
2nd cut	22.6	16.8	25.2	17.8
Total of 2 cuts	39.4	27.6	47.2	24.9

STATEMENT OF EXPENSES				
FISCAL YEAR 1961				
III	II	I	IV	V
30.0	42.8	10.9	30.0	10.9
(100.00)	(100.00)	(100.00)	(100.00)	(100.00)
TOTAL EXPENSES				
100.0	100.0	100.0	100.0	100.0
STATEMENT OF REVENUE				
FISCAL YEAR 1961				
III	II	I	IV	V
100.0	100.0	100.0	100.0	100.0
(100.00)	(100.00)	(100.00)	(100.00)	(100.00)
TOTAL REVENUE				
100.0	100.0	100.0	100.0	100.0
STATEMENT OF DEFICIT				
FISCAL YEAR 1961				
III	II	I	IV	V
100.0	100.0	100.0	100.0	100.0
(100.00)	(100.00)	(100.00)	(100.00)	(100.00)
TOTAL DEFICIT				
100.0	100.0	100.0	100.0	100.0

66/c/1.1

LEVELS OF K AND Mg

(LM)

K and Mg - Rothamsted Sawyers I - the 8th year, kale.

Design: 3 x 3 x 3 arrangement in 6 blocks of 9 plots, with 3 blocks (1 replicate) at each of 2 levels of Ca.

In addition a 3 x 3 arrangement in 2 blocks of 9 (1 at each level of Ca).

Area of each plot: 0.0212. Area harvested: 0.0045.

Treatments:

Blocks receiving sodium treatments. All combinations of:-

1. (To blocks). Magnesium free calcium carbonate in 1959 and 1962 as follows:

1959 10, 40 cwt (Ca1, Ca2)

1962 38, 76 cwt (Ca1, Ca2)

2. Mg applied each year: None (Mg0), 29 (Mg1), 58 (Mg2) lb Mg applied as magnesium sulphate.

3. K applied each year: (In lb K, as sulphate of potash). None (K0), 68 (K1), 136 (K2).

4. Na (1966 only): None (Na0), 130 lb. Na as sodium chloride (Cl), 130 lb as sodium carbonate (C).

Blocks not receiving sodium treatment. All combinations of (1), (2), (3) as above.

Basal applications: 0.5 cwt P2O5 as triple superphosphate in seedbed, 1.0 cwt N as 'Nitro-Chalk' in seedbed, 1.0 cwt N as 'Nitro-Chalk' top-dressed.

Cultivations, etc.:

Ploughed: Oct 19, 1965. Basal P applied: Mar 18, 1966. Fertilisers applied: Apr 26. 'Nitro-Chalk' applied, seed drilled at 1.5 lb: Apr 28. 'Nitro-Chalk' top-dressed: June 23. Harvested: Dec 5. Variety: Thousand Head.

- NOTES: (1) The percentages of Na, Mg and K in the crop were determined.
(2) For previous years' results see 'Results' 60/Ci/3, 61/C/7, 62/C/6, 63/C/1, 64/C/1, 65/C/1.

Standard errors per plot (pooled). Kale fresh weight:
1.703 or 6.8% (34 d.f.)